

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 4, 2001, 18:30:48 ; Search time 3525.91 Seconds
(without alignments)
9884.731 Million cell updates/sec

Title: us-09-117-447-1
Perfect score: 3687
Sequence: 1 atggataggaataaaagctgt.....ttacattctatattaagtaa 3687

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 10228115 seqs, 4726426750 residues

Total number of hits satisfying chosen parameters: 20456230

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*

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2: gb_est2:*
3: gb_est3:*
4: gb_est4:*
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258: gb_gss37:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	72.2	2.0	908	245	AZ548467	AZ548467 ENTEK30TR
2	68.2	1.8	877	245	AZ531291	AZ531291 ENTBQ34TR
3	68.2	1.8	912	245	AZ551092	AZ551092 ENTFJ22TF
4	66.8	1.8	816	245	AZ535744	AZ535744 ENTCQ25TR
5	66	1.8	843	245	AZ551618	AZ551618 ENTDV54TR
6	63.6	1.7	880	245	AZ529191	AZ529191 ENTBV68TR
7	62	1.7	849	245	AZ546009	AZ546009 ENTFW53TF
8	61	1.7	891	248	AZ683582	AZ683582 ENTKK47TR
9	60	1.6	900	245	AZ549980	AZ549980 ENTDD94TF
10	59.8	1.6	997	219	CNS0134P	AL102403 Drosophila
11	58.8	1.6	494	258	FR0048073	AL444858 Fugu rubr
12	58.4	1.6	905	245	AZ550256	AZ550256 ENTEV58TR
13	57.4	1.6	912	245	AZ527724	AZ527724 ENTBQ71TR
14	57.4	1.6	938	247	AZ676392	AZ676392 ENTHY47TR
15	56.8	1.5	879	245	AZ550718	AZ550718 ENTEM36TF
16	56.4	1.5	476	165	BE224646	BE224646 kp59a06.y
17	55.8	1.5	910	245	AZ544844	AZ544844 ENTEV52TF
18	55.8	1.5	1159	219	CNS015XR	AL106041 Drosophila
19	55.4	1.5	773	220	CNS01YTG	AL169549 Tetraodon
20	55.2	1.5	735	221	CNS04NSM	AL299119 Tetraodon
21	55.2	1.5	917	219	CNS017SL	AL108447 Drosophila
22	54.2	1.5	1076	222	CNS05HXN	AL338180 Tetraodon
23	54.2	1.5	1282	80	BF264918	BF264918 HV_CEA001
24	53.8	1.5	619	258	FR0047601	AL444386 Fugu rubr
25	53.8	1.5	906	245	AZ547385	AZ547385 ENTGK54TR
26	53.8	1.5	918	247	AZ677162	AZ677162 ENTJU66TF
27	53.4	1.4	560	219	CNS00C13	AL059106 Drosophila
28	53.4	1.4	1101	219	CNS01807	AL108721 Drosophila
29	53	1.4	1025	219	CNS014J2	AL104216 Drosophila
30	53	1.4	1147	256	B13042	B13042 T30M24-Sp6.
31	52.4	1.4	501	258	FR0048173	AL444958 Fugu rubr
32	51.8	1.4	959	219	CNS00655	AL062806 Drosophila
33	51.8	1.4	969	219	CNS00IDL	AL074848 Drosophila
34	51.8	1.4	1101	219	CNS00HX9	AL073856 Drosophila
35	51.6	1.4	438	174	BG226596	BG226596 kp91c05.y
36	51.6	1.4	470	222	FR0018463	AL011359 F.rubripe
37	51	1.4	911	247	AZ668666	AZ668666 ENTMM95TR
38	51	1.4	1042	219	CNS0148K	AL103838 Drosophila
39	51	1.4	1184	221	CNS04P4P	AL300850 Tetraodon
40	50.8	1.4	421	137	BE580431	BE580431 kp77d03.y
41	50.8	1.4	460	174	BG224667	BG224667 kp49c12.y
42	50.8	1.4	888	245	AZ549065	AZ549065 ENTGE24TR
43	50.8	1.4	1101	219	CNS0039G	AL063921 Drosophila
44	50.6	1.4	539	114	AW329517	AW329517 N200762e
45	50.6	1.4	1101	219	CNS00EVL	AL069706 Drosophila

ALIGNMENTS

RESULT 1
LOCUS AZ548467 908 bp DNA
DEFINITION ENTEK30TR Entamoeba histolytica Sheared DNA Entamoeba histolytica genomic, DNA sequence.
ACCESSION AZ548467
VERSION AZ548467.1 GI:11172102
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE 1 (bases 1 to 908)
AUTHORS Loftus,B., Van Aken,S. and Fraser,C.
TITLE Determination of clone end sequences from Entamoeba histolytica HMI:IMSS sheared DNA library
JOURNAL Unpublished (2000)
COMMENT Contact: Brendan J Loftus

Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: bjl@fuser.tigr.org
Clones are derived from the Entamoeba histolytica HMI:IMSS sheared DNA library
Seq primer: M13-Reverse
Class: Shotgun
High quality sequence start: 17
High quality sequence stop: 828.
Location/Qualifiers
1. 908
/organism="Entamoeba histolytica"
/strain="HMI:IMSS"
/db_xref="taxon:5759"
/clone_lib="Entamoeba histolytica Sheared DNA"
/note="Vector: pHO51; Site_1: Bst I; Constructed at The Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica using a method described by Clark and Diamond (Clark, C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a method for isolate identification. Exp. Parasitol. 77:450.). The DNA was mechanically sheared to give a tight size distribution (~2 kb). The v + l method used for the library construction is described in detail in Smith, H.O. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaubin and B. Barelil, Oxford University Press, 1999)."

BASE COUNT 434 a 16 c 289 g 169 t
ORIGIN

Query Match 2.0%; Score 72.2; DB 245; Length 908;
Best Local Similarity 44.6%; Pred. No. 2.8e-06;
Matches 333; Conservative 0; Mismatches 408; Indels 6; Gaps 1;

OY 195 taacgattatattgctgaatacaacaagaagcaaaacgataccgtgattcgaactt 254
DB 42 TGATGATGAAGAAGATGATGATGAAGAAGATGATGAAGAAGATGATGAAGA 101
OY 255 agtgaataaagcagtgccgcaaaaagcgttactttagctgattcaaaaagata 314
DB 102 AGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGCA 161
OY 315 tgaacttacgtttccaagaacaaccctaacttcggtcggaagctcgtgtagaactt 374
DB 162 TGAAGACGACGATGATGATGATGAAGAAGATGATGATGAAGAAGATGATGA 221
OY 375 cgatgcttacaactatgcaacaanaattagcgaanaatgcgccaagagctgagctgt 434
DB 222 AGATGATGAAGACGATGAAGACGACGAATATGAAATT-----AGAAGATGATGATGA 275
OY 435 tcaagcaaaagatttagaanaagcagaacatactatcacaanaattcctaatgaa 494
DB 276 TGAAGAAGAGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGA 335
OY 495 aactgcacagtcatttagatgcggtatattgtaaaacaactcgtgatttactcgtc 554
DB 336 AGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGA 395
OY 555 tacatttaagcaaaagcacaagaacttcgcgacagcttaatttatgtattaccgttc 614
DB 396 TGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGA 455
OY 615 aatgaagcgcgcgaagtacaagagcgtgtgaaagcaggaatttagacaaagcctaagc 674
DB 456 AGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGAAGATGATGAAGA 515
OY 675 tgcgttgatcaaatcaatactacttaccaaaagtaacagatgcttcaaaactgaact 734

QY 240 tgaatgcggtagcattagtgataaagcaggtgcgcgaaaaaagacgcttacttagctga 299
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 694 TGATGAAGAGAGATGATGATGAAGAGAGATGATGAAGAGATGATGAAGAGATGA 635
QY 300 ttacaacaaagaatatgaacacttgcgttttcaaaagcaaaccttaacttgcggaagctcg 359
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Db 634 TGATGAAGATGATGATGATGATGAAGATGATGATGATGAAGAGATGATGAAGAGATGA 575
QY 360 tgtagaacttacatcgatgcttacaactatgcaacaaattagacgaatgcgcgaaga 419
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 574 TGAAGAACACGATGAAGAGACGATGAAGAGACGATGAAGAGACGATGAAGAGACGA 515
QY 420 gctagaagctgcgtgtcaagcaaaagattagaaaaaagcagaacatctatcacaaat 479
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 514 TGAAGAACACGATGAAGAGACGATGAAGAGACGATGAAGAGACGATGAAGAGAGAGA 455
QY 480 tccttatgaattaaactgcacagtcattttagatcggtatatgtgtaaaacaactcg 539
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QY 540 tgatttacttcgctctacatttaaaagcaaaagcacaagaacttcgcgcgaagcttaattta 599
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QY 600 tgaattaccgcttgcgaatgtaaaagcgcggaagttacaagacgctgtgtgaaagcaggaattt 659
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Db 334 TGAAGAGAGACGATGATGAAGAGACGATGATGAAGAGACGATGATGAAGAGACGATGA 275
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Db 274 TGAAGAGAGACGATGATGAAGAGACGATGATGAAGAGACGATGATGAAGAGACGATGA 215
QY 720 ttcaaaactgaactaacaagaagtagcgaaaaaagcatttagatgcagatgaaagctgcgct 779
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Db 214 TGAAGAGAGACGATGATGAAGAGAGATGAAGATGAAGATGATGAAGATGAAGAGAGAGA 155
QY 780 tactccaaagttgaaagtglaagtgcgattcaactcaaacaaagaagctgttga 833
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RESULT 5
AZ551618/c 843 bp DNA GSS 14-NOV-2000
LOCUS ENT54TR Entamoeba histolytica Sheared DNA Entamoeba histolytica
DEFINITION genomic, DNA sequence.
ACCESSION AZ551618 GI:11176919
VERSION AZ551618.1
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE 1 (bases 1 to 843)
AUTHORS Loftus,B., Van Aken,S. and Fraser,C.
TITLE Determination of clone end sequences from Entamoeba histolytica
HMI:IMSS sheared DNA library

JOURNAL COMMENT
Unpublished (2000)
Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: b1loftus@tigr.org
Clones are derived from the Entamoeba histolytica HMI:IMSS sheared
DNA library
Seq primer: M13-Reverse
Class: shotgun
High quality sequence start: 39
High quality sequence stop: 838.
FEATURES
Location/Qualifiers
1..843
source

/organism="Entamoeba histolytica"
/strain="HMI:IMSS"
/db_xref="taxon:5759"
/clone_lib="Entamoeba histolytica Sheared DNA"
/note="Vector: pHD8; Site 1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica
using a method described by Clark and Diamond (Clark,
C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a
method for isolate identification. Exp. Parasitol.
77:450.). The DNA was mechanically sheared to give a
tight size distribution (~2 kb). The v + i method used for
the library construction is described in detail in Smith,
H.O. and Venter, J.C. (Making small insert libraries for
whole genome shotgun sequencing projects. In Genome
Sequencing: A Practical Approach, eds M. Vaudin and B.
Barell, Oxford university Press, 1999)."

BASE COUNT 155 a 266 c 18 g 404 t
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Query Match 1.8%; Score 66; DB 245; Length 843;
Best Local Similarity 43.7%; Pred. No. 7.7e-05;
Matches 340; Conservative 0; Mismatches 435; Indels 3; Gaps 1;

QY 119 aagcaaaagcaccagttcaaaaaagcatatacttaccagccatcacgtaacggaactg 178
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Db 816 ATGAAGAGAGATGATGATGAAGAGAGATGATGATGAAGAGAGATGATGAAGAGATGATG 757
QY 179 gtgaattcccaaacattaaacgattatgcttgaataacaacaagcgaaaaaacgatacc 238
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 756 AAGAGAGAGAGATGATGATGAAGAGAGATGATGATGAAGAGAGATGATGAAGAGAGATG 697
QY 239 gtgatgcggtagcattagtgataaagcaggtgcygcgaaaaagcagcttacttagctg 298
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 696 TAGAAGATGATGATGATGAAGAGAGAGATGATGATGAAGATGATGAAGATGATGAAGAG 637
QY 299 attacaacaaagaatatgaacacttgcgttttcaaaagcaaaccttaactctggcgaagctc 358
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 636 ACGACGAATGATGATTTAGAGAGATGATGATGATGAAGAGAGAGATGATGAAGAGAGAG 577
QY 359 gtgtagcaacttacatcgatgcttacaactatgcaacaaattagacgaatgcgcgaag 418
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Db 576 AAGAGAGATGATGATGAAGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGATG 517
QY 419 agctagaagctgcgtgttcaagcaaaagattagaaaaagcagaacatactatcacaaaa 478
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 516 ATGAAGATGATGATGAAGAGAGAGATGATGATGAAGATGATGAAGATGATGAAGAGAGAG 457
QY 479 ttcccttatgaattaaactgcgcacagtcattttagatcgcggtatattggttaaacactc 538
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 456 ACGAATATGATTTAGAGAGATGATGAAGAGAGAGATGATGAAGAGAGAGATGATGAAGAG 397
QY 539 gtgatttacttcgctctacatttaaaagcaaaagcacaagaacttcgcgcgaagcttaatt 598
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 396 ATGAT--GATGAAGATGATGATGAAGAGAGATGATGAAGATGATGAAGAGAGATGATG 340
QY 599 atgatttaccgcttgcgaatgtaaaagcgcggaagttacaagaagctgtgaaagcaggaatt 658
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 339 AAGATGATGATGAAGAGAGAGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGATG 280
QY 659 tagacaagaagctaaagctgctgttgcataaatcaatcaatcttaccaaaagtaacagatg 718
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Db 279 AAGAGAGATGATGAAGAGAGAGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGATG 220
QY 719 ctltcaaaactgaactaacaagaagtagcgaaaaaagcatttagatgcagatgaaagctgcgc 778
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 219 ATGAAGAGAGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGATG 160
QY 779 ttactccaaggttgaagtgtaagtgcgatttaaacactcaaacaaagctgttgaattaa 838
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111
Db 159 ATGATGATGATGAAGAGAGATGATGATGAAGAGAGATGATGAAGAGAGATGATGAAGAGAG 100

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Qy 839 cagcagtcaccgtgaacggaacactaaattacaacttcagctgctgcaaatgaaga 896
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 99 ATGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 42

RESULT 6
AZ529191/c 880 bp DNA GSS 03-NOV-2000
LOCUS ENTBV68TR Entamoeba histolytica Sheared DNA Entamoeba histolytica
DEFINITION genomic, DNA sequence.
ACCESSION AZ529191
VERSION AZ529191.1 GI:11081835
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE Eukaryota; Entamoebidae; Entamoeba.
AUTHORS Loftus,B., Van Aken,S. and Fraser,C.
TITLE Determination of clone end sequences from Entamoeba histolytica
HML:IMSS sheared DNA library
JOURNAL Unpublished (2000)
COMMENT Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: b.loftus@tigr.org
Clones are derived from the Entamoeba histolytica HML:IMSS sheared
DNA library
Seq primer: M13-Reverse
Class: shotgun
High quality sequence start: 17
High quality sequence stop: 673.
Location/Qualifiers
1. 880
/organism="Entamoeba histolytica"
/strain="HML:IMSS"
/db_xref="taxon:5759"
/clone_lib="Entamoeba histolytica Sheared DNA"
/note="Vector: PHOS1; Site_1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica
using a method described by Clark and Diamond (Clark,
C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a
method for isolate identification. Exp. Parasitol.
77:450.). The DNA was mechanically sheared to give a
tight size distribution (~2 kb). The v + 1 method used for
the library construction is described in detail in Smith,
H.O. and Venter, J.C. (Making small insert libraries for
whole genome shotgun sequencing projects. In Genome
Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barell, Oxford University Press, 1999)."
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BASE COUNT 129 a 271 c 67 g 413 t
ORIGIN

Query Match 1.7%; Score 63.6; DB 245; Length 880;
Best Local Similarity 43.7%; Pred. No. 0.00028;
Matches 279; Conservative 0; Mismatches 359; Indels 0; Gaps 0;
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Qy 49 gcaagtgcattgtcgctgcaaatccaagccttgaagcgtactagatgtagaaca 108
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Db 750 GCAGAGAGAGAGACGAGAGAGATGAAGACGAGAGAGACGAGATGACGAAGACGAA 691

Qy 109 gtagtaagccaagcaaaagcacagttcaaaaagcatatactactacagccatacagta 168
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 690 GCAGAGAGAGATGACGAGAGAGACGAGAGAGACGAGAGAGAGAGAGAGAGAGAA 631

Qy 169 acggaactggtgaattcccaacattacgtatgtatgtcgtgaatacaacaagcgaa 228
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 630 GACGAAGAAGAGAGAGAGAGAGATGACGAGAGAGAGATGACGAGAGAGATGAA 571
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Qy 229 aaacgataccgtgatcggttagcatlagtgaataaagcaggtgcygcaaaaagacgct 288
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Db 570 GACGAAGAAGATGAAGACGAAGAAGATGAAGACGAAGAAGATGAAGACGAAGAAGATGAA 511

Qy 289 tacttagctgatttacaaaaagaatatgaacttacgltttcaagcaaaccttaactct 348
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 510 GACGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGA 451

Qy 349 ggcgaagctcgtgtagcaacttacatcgatgcttcaactatgcaacaaattagaacgaa 408
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 450 GACGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGA 391

Qy 409 atgcgccaagagctagagcgtgctgttcaagcaaaagattagaanaagcagaacaatc 468
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 390 GACGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGA 331

Qy 469 taccacaaatlccctatgaaltaaactcgcacagtcatttagatcggtatattgct 528
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 330 GACGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGA 271

Qy 529 aaacaactcgtgatttacttcctcgtctacatttaaaagcaaaagcacaaagacttcgcgac 588
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 270 GACGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGAAGACGAAGA 211

Qy 589 agcttaattatgatatattaccggttgcaatgaagcgcgcaagtagtaagacgctgtgaa 648
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 210 GACGAAGATGATGATGATGATGATGATGAAGACGAAGAAGATGATGATGAAGACGAAGA 151

Qy 649 gcaggaactttagacaaagctaaagctgctgtgataca 686
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Db 150 GATGATGAAGACGAAGAAGATGATGAAGACGAAGAAGATGATGA 113
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RESULT 7
AZ546009/c 849 bp DNA GSS 14-NOV-2000
LOCUS ENTFW53TF Entamoeba histolytica Sheared DNA Entamoeba histolytica
DEFINITION genomic, DNA sequence.
ACCESSION AZ546009
VERSION AZ546009.1 GI:11167130
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE Eukaryota; Entamoebidae; Entamoeba.
AUTHORS Loftus,B., Van Aken,S. and Fraser,C.
TITLE Determination of clone end sequences from Entamoeba histolytica
HML:IMSS sheared DNA library
JOURNAL Unpublished (2000)
COMMENT Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: b.loftus@tigr.org
Clones are derived from the Entamoeba histolytica HML:IMSS sheared
DNA library
Seq primer: M13-Forward
Class: shotgun
High quality sequence start: 26
High quality sequence stop: 796.
Location/Qualifiers
1. 849
/organism="Entamoeba histolytica"
/strain="HML:IMSS"
/db_xref="taxon:5759"
/clone_lib="Entamoeba histolytica Sheared DNA"
/note="Vector: PHOS1; Site_1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica
using a method described by Clark and Diamond (Clark,
C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a
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Db 423 AAGAAGACGATGATGAAGAAGACCGATGATGAAGAAGACCGATGATG 482
OY 617 tgaagcgcggaagtagacaagcgtctgaagcaggcaatttagacaagctaagctg 676
Db 483 AAGAAGACGATGATGAAGAAGACCGATGATGAAGAAGACCGATGATG 542
OY 677 ctgttgatcaaatcaatcaactlaccaaaaglaacagatgcttccaaaactgaactaa 736
Db 543 AAGAAGACGATGATGAAGAAGACCGATGATGAAGAAGACCGATGATG 602
OY 737 cagaagtagcgaaaaaagcattagatgcagatgaagctgcgcttactlccaaaagltgaag 796
Db 603 AAGAAGATGAAGATGATGAAGATGATGAAGATGAAGATGAAGATGAAG 662
OY 797 gtgttaagtcgcatltaacactcaaaaagaagctgttga 833
Db 663 ACCAGCATGAAGACGATGAAGACGATGAAG 699

RESULT 9
LOCUS AZ549980 900 bp DNA GSS 14-NOV-2000
DEFINITION ENTDP94TF Entamoeba histolytica Sheared DNA Entamoeba histolytica genomic, DNA sequence.
ACCESSION AZ549980
VERSION AZ549980.1 GI:11175122
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE 1 (bases 1 to 900)
AUTHORS Loftus,B., Van Aken,S. and Fraser,C.
TITLE Determination of clone end sequences from Entamoeba histolytica HMI:IMSS sheared DNA library
JOURNAL Unpublished (2000)
COMMENT Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: b.loftus@tigr.org
Clones are derived from the Entamoeba histolytica HMI:IMSS sheared DNA library
Seq primer: M13-Forward
Class: shotgun
High quality sequence start: 20
High quality sequence stop: 890.

FEATURES
source
1..900
/organism="Entamoeba histolytica"
/strain="HMI:IMSS"
/db_xref="taxon:5759"
/note="Vector: pHOSt; Site_1: Bst I; Constructed at The Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from broth cultures of E. histolytica using a method described by Clark and Diamond (Clark, C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a method for isolate identification. Exp. Parasitol. 77:450.). The DNA was mechanically sheared to give a tight size distribution (~2 kb). The v + i method used for the library construction is described in detail in Smith, H.O. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barell, Oxford University Press, 1999)."
BASE COUNT 376 a 63 c 235 g 226 t
ORIGIN
Query Match 1.6%; Score 60; DB 245; Length 900;

Best Local Similarity 44.8%; Pred. No. 0.002;
Matches 231; Conservative 0; Mismatches 285; Indels 0; Gaps 0;
OY 260 ataaagcagtgccgcaaaaaagaagcgttacttagctgatttacaagaatatgaag 319
Db 254 ATAATGACTATGATTTAGAAAACAATGAAGATTTAGATGACGAAGAATTTGACTTAGAAG 313
OY 320 cttaacgttttcaagcaaaccttaaatctggcggaagctcgtgtagcnaacttacaatcgatg 379
Db 314 ATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAG 373
OY 380 cttaacactatgcacaanaatttagacgnaatgcgccaaagagctlagagctgctgttcaag 439
Db 374 ACGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATG 433
OY 440 caaagatttagaaaaagcagaacaatactatccaaaattcccttatgnaattaaactc 499
Db 434 AAGAAGATGAAGATGAAGATGAAGATGAAGATGAAGATGAAGATGAAGATG 493
OY 500 gcacagtcattttagatcgcgtatatgyltaaaacaaactcgtgatttacttgccttacaat 559
Db 494 ATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAG 553
OY 560 ttaaagcaaaagcaagaacttcgcgacagcttaattatgatattaccgttgcaatga 619
Db 554 ATGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAGATGATGAAG 613
OY 620 aagcgcggaagtacaagcgtgtgaaagcagcgaatttagacaagaactaaagctgctg 679
Db 614 AAGAAGATGAAGATGAAGACGATGATGAAGACGATGATGAAGACGATGATGAAG 673
OY 680 ttgatcaaatcaatcaatcttaccaaaaglaacagatgcttcaaaactgaactaacag 739
Db 674 ATGAAGACGATGATGAAGACGATGATGAAGACGATGATGAAGACGATGATGAAG 733
OY 740 aagtagcgaaaaaagcatttagatgcagatgaagctg 775
Db 734 ATGAAGACGATGATGAAGACGATGATGAAGACGATG 769

RESULT 10
LOCUS CNS0134P/c 997 bp DNA GSS 26-JUL-1999
DEFINITION CNS0134P Drosophila melanogaster genome survey sequence sp6 end of BAC BACN09C07 of DrosBAC library from Drosophila melanogaster (fruit fly), genomic survey sequence.
ACCESSION AL102403
VERSION AL102403.1 GI:5614014
KEYWORDS GSS.
SOURCE fruit fly.
ORGANISM plasmid Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE 1 (bases 1 to 997)
AUTHORS Direct Submission
TITLE Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : segre@genoscope.cns.fr - Web : www.genoscope.cns.fr)
COMMENT Determination of this BAC-end sequence was carried out as part of a collaboration with the European Drosophila Genome Project (EDGP) - http://www.edgp.ebi.ac.uk -. This Drosophila melanogaster BAC library (Dros BAC) was made by Alain Billaud at CEPH (Centre d'Etude du Polymorphisme Humain) with funding provided by a MRC project grant. The DNA was prepared from embryos by Alain Bucheton and Genevieve Payan. It has been constructed in the vector pBelobAC11.
FEATURES
source
1..997
/organism="Drosophila melanogaster"
/plasmid="pBelobAC11"
/db_xref="taxon:7227"

/clone_lib="DrosBAC"
/clone="BACN09C07"
/note="end : Sp6"
BASE COUNT 162 a 115 c 79 g 517 t 124 others
ORIGIN

Query Match 1.6%; Score 59.8; DB 219; Length 997;
Best Local Similarity 37.5%; Pred. No. 0.0022;
Matches 245; Conservative 43; Mismatches 362; Indels 3; Gaps 1;

QY 437 aagcaaaagatttagaaaaagcagaacaatactatcacaaaattccctatgaattaaaa 496
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Db 656 AAAAAAAAAAAAAAAAAAAATTAAGAGAAAGAAATTAAGARTTAGAGAAAAAATAAT 597
497 ctgcacagtcatttagatcgcgtatagttaaaacaactcgtgattacttcgtcta 556
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 596 ATTAAAAAGAAAAATTAATAAAAGAGAAAGAGAAARAAAAAGAAARAAWAAAAAA 537
QY 557 cattaaagcaaaagcacagaactcgcgacagcttaattatgatataccgttgcaa 616
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Db 536 WAAMAAATRAAAWRTAAAAAAGAAATWAAARTRAAAAGAAAWAAWAAAAAGWAA 477
QY 617 tgaagcgcggaagtacagacgctgtgaaaagcagcaatttagacaaaagctaagctg 676
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 476 AATAAAATTAATAAAAGATTAATAAAAGAAAAATAATAAAAAWAAAA 417
QY 677 ctgtgatcaaatcaatcaatactaccaaaagtaacagatgcttccaaaactgaactaa 736
| : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 416 WTGAWAAAGAAAAATAATATATATATTAATAATTAGWAGRATARAATAWTGAATTA 357
QY 737 cagaagtagcgaaaaaagcatttagatgcagatgaagctgcgttactccaaaagttgaaa 796
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Db 356 AAGAAARAAAAAAATTAATAAAWRAAAACATATATRWGTAACAAAAAAGAAAAA 297
QY 797 gtgtaagtcgatttaacactcaaaaagctgtlgaattaacagcagtaaccagtgaa 856
| : | | : | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 296 AAAARARARAWAAAAAAGARAAAAAANNNNNNNANNNNNNNAANNNNNAANN 237
QY 857 gaacactaaattacaacttccagctgcgaatgaagatacagtaaacgtaactg 916
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Db 236 NNGANNNNNNNAANATGTRCAATWAAAGTATRGAAAAATAARWAAAAAA--- 178
QY 917 tacgtatcataaagtggacggttaacattgcccttaatacggcagatgttctt 976
: : | : | | | : | | : | | | | | | | | | | | | | | | | | | | | | | | | |
Db 179 ARARAAGWARAAAGAAWRTWCCAAAGAGAGAGAGTTTAAAGTTTAAAGACATGAMC 120
QY 977 tatctacagaacggaataactatcactggtgatgcttcaactccatcgcgaaaataacagg 1036
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Db 119 TTAGCAATAAGGWAATRAAAAAAAWTAATAAAGTTAACAAAAAAGAACCGTAAWMTAA 60
QY 1037 agtataaagtagttagttaaaggtattaaagacaaaaaatgycaaagaatttaa 1089
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 59 ACCGGAACAAGTTGTAATAAAATGAAAAAATAATATTGMAATTGWAATRAAM 7

RESULT 11
FR0048073 494 bp DNA GSS 05-JAN-2001
LOCUS Fugu rubripes GSS sequence, clone 263K15bD8, genomic survey
DEFINITION sequence.
ACCESSION AL444858
VERSION AL444858.1 GI:12052694
KEYWORDS GSS: genome survey sequence.
SOURCE Takifugu rubripes.
ORGANISM Takifugu rubripes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetraodontidae; Takifugu.
REFERENCE 1 (bases 1 to 494)
AUTHORS Clark, M.S.
TITLE Direct Submission

JOURNAL Submitted (29-SEP-2000) MRC Human Genome Mapping Project Resource
Centre Hinxton, Cambridge, CB10 1SB. UK Email:
biohelp@mp.mrc.ac.uk
COMMENT Vector: pBluescript II KS
V_type: phagemid
PRIMER: KS
DESCR: One pass dye-terminator sequencing of BAC (pBelOBACII) cloned
genomic sequence
The BACS can be obtained from <http://www.incyte.com>.

FEATURES
source 1..494
/organism="Takifugu rubripes"
/db_xref="taxon:31033"
/clone="263K15bD8"
/clone_lib="BAC 263K15"

BASE COUNT 128 a 163 c 45 g 158 t
ORIGIN

Query Match 1.6%; Score 58.8; DB 258; Length 494;
Best Local Similarity 48.0%; Pred. No. 0.0032;
Matches 168; Conservative 0; Mismatches 182; Indels 0; Gaps 0;

QY 1259 cgaacgttactatcacagatgtgaaacgaaacgcattccagtaattgcattact 1318
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Db 145 CGACTGCTACTACTACTACTGCTACTACTACTACTACTACTACTACTGCTACTACTA 204
QY 1319 ctggttcaaatattactattacgtttaaagaagcgttagtaactgtaaacatataac 1378
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Db 205 CTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTA 264
QY 1379 ttgctatcaataatgttaaacaattactggtttacaatgcagaagcttacgagttagt 1438
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Db 265 CTACTACTACTACTACTACTACTGCTACTGCTACTACTACTACTGCTACTACTACTA 324
QY 1439 tcaactgcaacgcatacagcaccactgttgcctaccgctcctactacttttagtgtacaa 1498
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 325 CTACTACTACTACTGCTGCTGCTACTGCTACTACTACTACTACTACTACTACTACTA 384
QY 1499 ctlatclactggtctcttacaacaaatgttgggtaaatggcgtggtgtaag 1558
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 385 CTACTACTACTGCTACTACTACTACTACTACTACTACTACTACTGCTACTACTG 444
QY 1559 aagctggaacttatctcgtgcttcaattcacacaacggttgact 1608
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 445 CTACTACTACTACTACTACTACTGCTACTACTACTACTACTGCTACTACT 494

RESULT 12
AZ550256/c 905 bp DNA GSS 14-NOV-2000
LOCUS ENTEV58TR Entamoeba histolytica Sheared DNA Entamoeba histolytica
DEFINITION genomic, DNA sequence.
ACCESSION AZ550256
VERSION AZ550256.1 GI:11175557
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
Eukaryota; Entamoebidae; Entamoeba.
REFERENCE 1 (bases 1 to 905)
Loftus, B., Van Aken, S. and Fraser, C.
Determination of clone end sequences from Entamoeba histolytica
HMI:IMSS sheared DNA library
Unpublished (2000)
JOURNAL Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: b.loftus@ligr.org
Clones are derived from the Entamoeba histolytica HMI:IMSS sheared

Db 369 ATAAATATTATACATATGATATATACTATAGCAATTATTAAGATATGAAAATAATA 428
QY 530 aaacaactcgtgattactcgcctacatttaagcaaaagcacagaacttcgcgaca 589
Db 429 TTAACAATTAAGAAAGGAATTAATAAGCGTTACAGATATACAGATGACATTAGACAAA 488
QY 590 gcttaattatgatatattaccggttcgaatgaaagcgcgcgaagtacagaacgctgtgaaag 649
Db 489 ACAATTATGAGAATTTAAAAAATGCAATTAAGAAGAGAGAGTAGATTAATCAATCCCTG 548
QY 650 cagcaatttagacaagaagctaaagctgctgtgatcaaatcaatcaactactaccaaaag 709
Db 549 TAATAGAAAGAAAGAGAGATGATTAATTAAGTACAGAAATATAGATTATGATAAATAAAG 608
QY 710 taacagatgcttcaaaactgaactacagaagtagcgaaaaaagcattagatgcagatg 769
Db 609 ATAAACAATGGAAGAATAGAAATACACAAGATG---AAAAAGAACCCAGATAGAAATA 665
QY 770 aagctgcgttactccaaaagtgtgaagtgtgaagtcgattaa 812
Db 666 TTATACCACTTAGACCACCAAGACAGAGATAGAAATACTATTAA 708

RESULT 14
LOCUS AZ676392/c 938 bp DNA GSS 14-DEC-2000
DEFINITION ENT47TR Entamoeba histolytica Sheared DNA Entamoeba histolytica
ACCESSION AZ676392 genomic, DNA sequence.
VERSION AZ676392.1 GI:11813538
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE 1 (bases 1 to 938)
AUTHORS Loftus, B., Van Aken, S. and Fraser, C.
TITLE Determination of clone end sequences from Entamoeba histolytica
HML:IMSS sheared DNA library
JOURNAL Unpublished (2000)
COMMENT Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: bjloftus@tigr.org
Clones are derived from the Entamoeba histolytica HML:IMSS sheared
DNA library
Seq primer: M13-Reverse
Class: shotgun
High quality sequence start: 34
High quality sequence stop: 809.

FEATURES

source

1. 938

/organism="Entamoeba histolytica"

/strain="HML:IMSS"

/db_xref="taxon:5759"

/clone_lib="Entamoeba histolytica Sheared DNA"

/note="Vector: pHO51; Site_1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica
using a method described by Clark and Diamond (Clark,
C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a
method for isolate identification. Exp. Parasitol.
77:450.). The DNA was mechanically sheared to give a
tight size distribution (~2 kb). The v + 1 method used for
the library construction is described in detail in Smith,
H.O. and Venter, J.C. (Making small insert libraries for
whole genome shotgun sequencing projects. In Genome
Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barell, Oxford University Press, 1999)."

BASE COUNT

132 a 201 c 107 g 498 t

ORIGIN

Query Match 1.6%; Score 57.4; DB 247; Length 938;
Best Local Similarity 49.1%; Pred. No. 0.008;
Matches 182; Conservative 0; Mismatches 186; Indels 3; Gaps 1;

QY 561 taagcaaaagcacaagaacttcgcgcgaagcttaattatgatattaaccgttcgaatgaa 620
Db 764 TGAAGCAAAAGCTTAAAGAGAGAGCTGAAGCAAAAAGCTTAAAGAGAGAGCTGAAGCAAAAGC 705
QY 621 agcgcgcgaagtacaagacgctgtgaaagcagycaatlttagacaagctaaagctgctgt 680
Db 704 TAAAGAGAGAGCTGAAGCAAAAGCAAGAGAGAGAGCTGAAGCAAAAGCTTAAAGAGAGAGC 645
QY 681 tgatcaaatcaatcaatctaccacaagaagtaacagatgcttcaaaactgaactacaga 740
Db 644 TGAAGCAAAAGCCCAAGAGAGAGCTGAAGCAAAAGCTTAAAGAGAGAGAGCTGAAGCAAAAGC 585
QY 741 agtagcgaaaaaagcatttagatgcagatgaagctgcgcttactccaaaagtgtgaagtgt 800
Db 584 TAAAGAGAGAGAGCTGAAGCAAAAGCTTAAAGAGAGAGC---TGAAGCAAAAGCTTAAAGAGAG 528
QY 801 aagtcgatttaacactcaaaccaaaagctgttgaaalttaacagcagtagcagtgaaagc 860
Db 527 AGCTGAAGAGAGAGAGCTTAAAGAGAGAGAGCTTAAAGAGAGAGAGAGAGAGAGAGAGAGAG 468
QY 861 actaaattcaacttccagctgcgcgaatgaagatacagtagaagcgaataactgtacg 920
Db 467 AGTTAAAGAGAGAGGTTAAAGAGAGAGGTTAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 408
QY 921 tatctataag 931
Db 407 AAATAAGAGAG 397

RESULT 15
LOCUS AZ550718/c 879 bp DNA GSS 14-NOV-2000
DEFINITION ENT567TR Entamoeba histolytica Sheared DNA Entamoeba histolytica
ACCESSION AZ550718 genomic, DNA sequence.
VERSION AZ550718.1 GI:11176019
KEYWORDS GSS.
SOURCE Entamoeba histolytica.
ORGANISM Entamoeba histolytica.
REFERENCE 1 (bases 1 to 879)
AUTHORS Loftus, B., Van Aken, S. and Fraser, C.
TITLE Determination of clone end sequences from Entamoeba histolytica
HML:IMSS sheared DNA library
JOURNAL Unpublished (2000)
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Clones are derived from the Entamoeba histolytica HML:IMSS sheared
DNA library
Seq primer: M13-Forward
Class: shotgun
High quality sequence start: 25
High quality sequence stop: 801.

FEATURES

source

1. 879

/organism="Entamoeba histolytica"

/strain="HML:IMSS"

/db_xref="taxon:5759"

/clone_lib="Entamoeba histolytica Sheared DNA"

/note="Vector: pHO51; Site_1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.

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